

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Kazumi Nii et al.

Application No.: 10/560,735

Confirmation No.: 3722

Filed: December 15, 2005

Art Unit: 1786

For: ELECTROLUMINESCENT DEVICE

Examiner: Michael WILSON

DECLARATION UNDER 37 CFR 1.132

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

I, Toshihiro ISE, declare and say as follows:

I received a Doctor's Degree in Chemistry from Tohoku University, Graduate School of Science, in March of 1999. I joined Fuji Photo Film Co., Ltd., which is now Fujifilm Corporation, in April of 1999. I have been engaged in the research and development of organic electroluminescence devices since that time.

I am familiar with U.S. Application Serial No. 10/560,735, of which I am a co-inventor. I have reviewed the Office Actions issued in connection with this application. I have also reviewed the references cited by the Examiner in these Office Actions.

Experiments as described below were conducted by me or under my direct supervision. These experiments provide evidence that the present invention is superior and exhibits unexpected and advantageous properties.

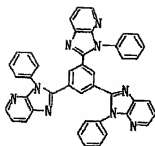
Additional Examples 1 to 5 were prepared in the same manner as was Sample No. 105 in the specification, except that the 2nd host material was replaced by compounds disclosed in JP 2002-319491, as indicated in the following table:

	Second Host	External Quantum Efficiency
Sample No. 101*	BAIq	4.1%
Sample No. 102*	BAIq	5.2%
Sample No. 105	H-1	9.3%
Additional Example 1	246	9.2%
Additional Example 2	247	9.0%
Additional Example 3	292	9.3%
Additional Example 4	293	8.8%
Additional Example 5	294	8.5%

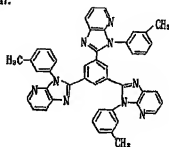
* comparative example (Table 1 – page 58 in specification)

Second Host materials 246 and 247 are depicted in paragraph [0124] of JP 2002-319491. Second Host materials 292 and 293 are depicted in paragraph [0141] of JP 2002-319491. Second Host material 294 is depicted in paragraph [0142] of JP 2002-319491. It is noted that Second Host material 247 differs from Second Host material H-1 which was used in Sample No. 105 in that Second Host material 247 contains meta-tolyl moieties where Second Host material H-1 contains ortho-tolyl moieties. The structural formulas of these Second Host materials from JP 2002-319241 are as follows:

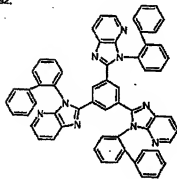
246.



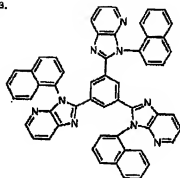
247.



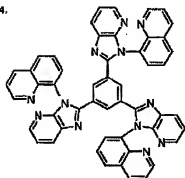
292.



299.



294.



The External Quantum Efficiencies of the additional examples were evaluated in the same manner as was Sample No. 105.

Conclusion: The present invention, as represented by sample number 105 and by additional examples 1, 2, 3, 4, and 5 (external quantum efficiencies = 9.3%, 9.2%, 9.0%, 9.3%, 8.8%, and 8.5%, respectively) is unexpectedly superior to and exhibits unexpected and advantageous properties as compared to comparative samples numbers 101 and 102 on page 58 of the specification (external quantum efficiencies = 4.1% and 5.2%, respectively).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Toshihiro Ise
Signature

Toshihiro ISE
Printed Name

Feb. 15, 2011
Date